AMENDMENTS TO THE CLAIMS:

This listing will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS:

Claim 1 (currently amended): An isolated antibody, or one of its functional fragments,

said antibody or one of its said fragments being capable of binding to the human insulin-like

growth factor T receptor IGF-IR and, if necessary, inhibiting the natural attachment of its

ligands IGF1 and/or IGF2 and/or capable of specifically inhibiting the tyrosine kinase activity

of said IGF-IR receptor, characterized in that it comprises comprising a light chain comprising

at least one complementarity determining region CDR ehosen selected from the CDRs of

sequence SEQ ID No. 2, 4 or 6, or at least one CDR whose sequence has at least 80% identity

after optimum alignment with the sequence SEQ ID No. 2, 4 or 6, or in that it comprises a

heavy chain comprising at least one CDR ehosen selected from the CDRs of sequence SEQ

ID Nos. 8, 10 and 12, or at least one CDR whose sequence has at least 80% identity after

optimum alignment with the sequence SEQ ID No. 8, 10 and 12.

Claim 2 (currently amended): The antibody, or one of its functional fragments, as

claimed in claim 1, characterized in that it comprises comprising a heavy chain comprising at

least one CDR of sequence SEQ ID No. 12 or a sequence having at least 80% identity after

optimum alignment with the sequence SEQ ID No. 12.

Claim 3 (currently amended): The antibody, or one of its functional fragments, as

claimed in claim 1 or 2, characterized in that it comprises comprising a heavy chain

comprising at least two of the three CDRs or the three CDRs of sequence SEQ ID Nos. 8, 10

and 12, or at least two of three CDRs or three CDRs of sequence respectively having at least

80% identity after optimum alignment with the sequence SEQ ID No. 8, 10 and 12.

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Claim 4 (currently amended): The antibody, or one of its functional fragments, as claimed in one of claims 1 to 3 claim 1, eharacterized in that it comprises comprising a light chain comprising at least one CDR ehosen selected from the CDRs of sequence SEQ ID No. 2, 4 or 6, or a CDR whose sequence has at least 80% identity after optimum alignment with the sequence SEQ ID No. 2, 4 or 6.

Claim 5 (currently amended): The antibody, or one of its functional fragments, as claimed in one of claims 1 to 4 claim 1, characterized in that it comprises comprising a light chain comprising at least two of the three CDRs or the three CDRs of sequence SEQ ID Nos. 2, 4 and 6, or at. least two of three CDRs or three CDRs of sequence respectively having at least 80% identity after optimum alignment with the sequence SEQ ID No. 2, 4 and 6.

Claim 6 (currently amended): The antibody, or one of its functional fragments, as claimed in one of claims 1 to 5 claim 1, characterized in that it which does not attach in a significant manner to the human insulin receptor IR.

Claim 7 (currently amended): The antibody as claimed in one of claims 1 to 6 claim 1, characterized in that wherein said functional fragment is chosen selected from the fragments Fv, Fab, F(ab')₂, Fab', scFv, scFv-Fc and the diabodies, or any fragment whose half-life would have been increased such as pegylated fragments.

Claim 8 (currently amended): A murine hybridoma capable of secreting an antibody as claimed in one of claims 1 to 6 claim 1.

Claim 9 (original): The murine hybridoma as claimed in claim 8 deposited at the CNCM, Institut Pasteur, Paris, on September 19, 2001 under the number I-2717.

Claim 10 (currently amended): An antibody, or one of its functional fragments, eharacterized in that wherein said antibody is secreted by the hybridoma as claimed in claim 9.

Claim 11 (currently amended): The antibody, or one of its functional fragments, as claimed in one of claims 1 to 7 claim 1, characterized in that wherein said antibody comprises a light chain of sequence comprising the amino acid sequence SEQ ID No. 54, or a sequence having at least 80% identity after optimum alignment with the sequence SEQ ID No. 54, or/and in that it comprises a heavy chain of sequence comprising the amino acid sequence SEQ ID No. 69, or a sequence having at least 80% identity after optimum alignment with the sequence SEQ ID No. 69.

Claim 12 (currently amended): The antibody or one of its functional fragments, as claimed in claim 11, eharacterized in that wherein said antibody is a chimeric antibody and moreover comprises the light chain and heavy chain constant regions derived from an antibody of a species heterologous to the mouse.

Claim 13 (currently amended): The chimeric antibody, or one of its functional fragments, as claimed in claim 12, eharacterized in that wherein said heterologous species is man.

Claim 14 (currently amended): The chimeric antibody, or one of its functional fragments, as claimed in claim 13, eharacterized in that wherein the light chain and heavy chain constant regions derived from a human antibody are respectively the kappa and gamma-1, gamma-2 or gamma-4 region.

Claim 15 (currently amended): The antibody or one of its functional fragments, as claimed in one of claims 1 to 7 claim 1, characterized in that wherein said antibody is a humanized antibody and comprises a light chain and/or a heavy chain in which the skeleton segments FR1 to FR4 of said light chain and/or heavy chain are respectively derived from skeleton segments FR1 to FR4 of human antibody light chain and/or heavy chain.

Claim 16 (currently amended): The humanized antibody, or one of its functional fragments, as claimed in claim 15, eharacterized in that wherein said antibody comprises a light chain comprising the amino acid sequence SEQ ID No. 61 or 65, or a sequence having at least 80% identity after optimum alignment with the sequence SEQ ID No. 61 or 65, or/and in that it comprises a heavy chain comprising the amino acid sequence SEQ ID No. 75, 79 or 83, or a sequence having at least 80% identity after optimum alignment with the sequence SEQ ID No. 75, 79 or 83.

Claim 17 (currently amended): The humanized antibody, or one of its functional fragments, as claimed in claim 15 or 16, eharacterized in that wherein said antibody comprises a light chain comprising the amino acid sequence SEQ ID No. 65, and in that it comprises a heavy chain of sequence comprising the amino acid sequence SEQ ID No. 79 or 83, preferably SEQ ID No. 83.

Claim 18 (currently amended): An isolated nucleic acid, characterized in that it is ehosen selected from the following nucleic acids:

- a) a nucleic acid, DNA or RNA, coding for an antibody, or one of its functional fragments, as claimed in one of claims 1 to 7 and 10 to 17 claim 1;
 - b) a complementary nucleic acid of a nucleic acid such as defined in a); and
- c) a nucleic acid of at least 18 nucleotides capable of hybridizing under conditions of great stringency with at least one of the CDRs of sequence SEQ ID No. 1, 3,

5, 7, 9 or 11, or with a sequence having at least 80% identity after optimum alignment with the sequence SEQ ID No. 1, 3, 5, 7, 9 or 11.

Claim 19 (original): A vector comprising a nucleic acid as claimed in claim 18.

Claim 20 (original): A host cell comprising a vector as claimed in claim 19.

Claim 21 (original): A transgenic animal with the exception of man comprising at least one cell transformed by a vector as claimed in claim 19.

Claim 22 (currently amended): A process for production of an antibody, or one of its functional fragments, as claimed in one of claims 1 to 7 and 10 to 17 claim 1, characterized in that it comprises comprising the following stages:

- a) culture of a cell in a medium and appropriate culture conditions of a cell as elaimed in claim 20; and
- b) the recovery of said antibodies, or one of their functional fragments, thus produced starting from the culture medium or said cultured cells.

Claim 23 (original): An antibody, or one of its functional fragments, capable of being obtained by a process as claimed in claim 22.

Claim 24 (currently amended): The antibody, or one of its functional fragments, as claimed in any one of claims 1 to 7, 10 to 17 and 23 claim 1, characterized in that it which is, moreover, capable of attaching specifically to the human epidermal growth factor receptor and/or capable of specifically inhibiting the tyrosine kinase activity of said EGFR receptor.

Claim 25 (currently amended): The antibody as claimed in claim 24, eharacterized in that it consists of which comprises a bispecific antibody and in that it comprises a second motif specifically inhibiting the attachment of the EGF to the human epidermal growth factor receptor EGFR and/or specifically inhibiting the tyrosine kinase activity of said EGFR receptor.

Claim 26 (currently amended): The antibody as claimed in claim 25, eharacterized in that it which is bivalent or tetravalent.

Claim 27 (currently amended): The antibody as claimed in one of claims 25 or 26 claim 25, characterized in that wherein said second motif is selected from the fragments Fv, Fab, F(ab')₂, Fab', Fab'PEG, scFv, scFv-Fc and the diabodies, or any form whose half-life would have been increased.

Claim 28 (currently amended): The antibody as claimed in any one of claims 25 to 27 claim 25, characterized in that wherein said second anti-EGFR motif is descended from the mouse monoclonal antibody 225, its mouse-man chimeric derivative C225, or a humanized antibody derived from this antibody 225.

Claim 29 (currently amended): The antibody, or one of its functional fragments, as claimed in one of claims 1 to 7, 10 to 17 and 23 to 27 as a medicament claim 1.

Claim 30 (currently amended): A composition comprising by way of active principle a compound consisting of an antibody, or one of its functional fragments, as claimed in one of claims 1 to 7, 10 to 17 and 23 to 29 claim 1.

Claim 31 (currently amended): The composition as claimed in claim 30, eharacterized in that it comprises comprising a second compound chosen from the compounds capable of specifically inhibiting the attachment of the EGF to the human epidermal growth factor receptor EGFR and/or capable of specifically inhibiting the tyrosine kinase activity of said EGFR receptor.

Claim 32 (currently amended): The composition as claimed in claim 31, eharacterized in that wherein said second compound is ehosen selected from the isolated anti-EGFR antibodies, or their functional fragments, capable of inhibiting by competition the attachment of the EGF to the EGFR.

Claim 33 (currently amended): The composition as claimed in claim 32, eharacterized in that wherein said anti-EGFR antibody is ehosen selected from the monoclonal, chimeric or humanized anti-EGFR antibodies, or their functional fragments.

Claim 34 (currently amended): The composition as claimed in either of claims 32 or 33 claim 32, characterized in that wherein said functional fragments of the anti-EGFR antibody are chosen selected from the fragments Fv, Fab, F(ab')₂, Fab', scFv-Fc and the diabodies, or any fragment whose half-life would have been increased, like pegylated fragments.

Claim 35 (currently amended): The composition as claimed in one of claims 32 to 34 claim 32, characterized in that which said anti-EGFR antibody is the mouse monoclonal antibody 225, its mouse-man chimeric derivative C225, or a humanized antibody derived from this antibody 225.

Claim 36 (currently amended): The composition as claimed in any one of claims 30 to 35 claim 30, eharacterized in that it comprises comprising, moreover, as a combination product for simultaneous, separate or sequential use, a cytotoxic/cytostatic agent and/or an inhibitor of the tyrosine kinase activity respectively of the receptors for IGF-I and/or EGF.

Claim 37 (currently amended): The composition as claimed in claim 36, eharacterized in that wherein said cytotoxic/cytostatic agent is ehosen selected from the agents interacting with DNA, the anitimetabolites, the topoisomerase I or II inhibitors, or the spindle inhibitor or stabilizer agents or else any agent capable of being used in chemotherapy.

Claim 38 (currently amended): The composition as claimed in claim 36 or 37, eharacterized in that wherein said cytotoxic/cytostatic agent is coupled chemically to at least one of the elements of said composition for simultaneous use.

Claim 39 (currently amended): The composition as claimed in claim 37 or 38, eharacterized-in that wherein said cytotoxic/cytostatic agent is ehosen selected from the spindle inhibitor or stabilizer agents, preferably *Vinca* alkaloid, more preferably selected from viriblastine, deoxyvinblastine, vincristine, vindesine, vinorelbine, vinepidine, vinfosiltine, vinzolidine and vinfunine.

Claim 40 (currently amended): The composition as claimed in one of claims 36 to 39 claim 32, characterized in that wherein said inhibitor of the tyrosine kinase activity respectively of the receptors for IGF-I and/or for EGF is selected from the group consisting of derived natural agents, dianilinophthalimides, pyrazolo- or pyrrolopyridopyrimidines or else quinazilines.

Claim 41 (currently amended): The composition as claimed in any one of claims 30 to 40 claim 30, characterized in that it comprises comprising, moreover, another antibody compound directed against the extracellular domain of the HER2/neu receptor, as a combination product for simultaneous, separate or sequential use intended for the prevention and for the treatment of cancer.

Claim 42 (currently amended): The composition as claimed in claim 41, eharacterized in that wherein said antibody directed against the extramembrane domain of the HER2/neu receptor is Trastuzumab, or one of its functional fragments.

Claim 43 (currently amended): The composition as claimed in any one of claims 30 to 42 claim 30, characterized in that wherein one, at least, of said antibodies, or one of its functional fragments, is conjugated with a cell toxin and/or a radioelement.

Claim 44 (currently amended): The composition as claimed in one of claims 30 to 43 as a medicament claim 30 and a pharmaceutically acceptable carrier therefor.

Claim 45 (currently claimed): The use of an antibody, or one of its functional fragments, as claimed in one of claims 1 to 7, 10 to 17 arid 23 to 29 and/or of a composition as claimed in any one of claims 30 to 44 A method for the preparation of a medicament intended for the prevention or for the treatment of an illness connected with an overexpression and/or an abnormal activation of the IGF-IR and/or EGFR receptor, and/or connected with a hyperactivation of the transduction pathway of the signal mediated by the interaction of IGF1 or IGF2 with IGF-IR and/or of EGF with EGFR comprising using the antibody as claimed in claim 1.

Claim 46 (currently amended): The use method as claimed in claim 45, eharacterized in that wherein the administration of said medicament does not induce or only slightly induces secondary effects connected with inhibition of the insulin receptor IR.

Claim 47 (currently amended): The use method as claimed in claim 45 or 46 for the preparation of a medicament intended to inhibit the transformation of normal cells into cells with tumoral character, preferably IGF-dependent, especially IGF1 and/or IGF2-dependent and/or EGF-dependent and/or HER2/neu-dependent cells.

Claim 48 (currently amended): The use method as claimed in any one of claims of 45 to 47 claim 45 for the preparation of a medicament intended to inhibit the growth and/or the proliferation of tumor cells, preferably IGF-dependent, especially IGF1-and/or IGF2-dependent and/or EGF-dependent and/or HER2/neu—dependent cells.

Claim 49 (currently amended): The use method as claimed in one of claims of 45 to 48 claim 45 for the preparation of a medicament intended for the prevention or for the treatment of cancer.

Claim 50 (currently amended): The use method as claimed in claim 49, eharacterized in that wherein said cancer is a cancer chosen from prostate cancer, osteosarcomas, lung cancer, breast cancer, endometrial cancer or colon cancer.

Claim 51 (currently amended): The use method as claimed in one of claims of 45 to 48 claim 45 for the preparation of a medicament intended for the prevention or for the treatment of psoriasis.

Claim 52 (currently amended): A method of *in vitro* diagnosis of illnesses induced by an overexpression or an underexpression of the IGF-IR and/or EGFR receptor starting from a biological sample in which the abnormal presence of IGF-IR and/or EGFR receptor is suspected, eharacterized in that wherein said biological sample is contacted with an antibody as claimed in one of claims 1 to 7, 10 to 17 and 23 to 29 claim 1, it being possible for said antibody to be, if necessary optionally, labeled.

Claim 53 (currently amended): A kit or set for carrying out a method of diagnosis of illnesses induced by an overexpression or an underexpression of the IGF-IR and/or EGFR receptor or for carrying out a process for the detection and/or the quantification of an overexpression or of an underexpression of the IGF-IR and/or EGFR receptor in a biological sample, preferably an overexpression of said receptor, eharacterized in that wherein said kit or set comprises the following elements:

- a) an antibody, or one of its functional fragments, as claimed in one of claims 1 to 7, 10 to 17 and 23 to 29 claim 1;
- b) optionally, the reagents for the formation of the medium favorable to the immunological reaction;
- c) optionally, the reagents allowing the demonstration of IGF-IR/antibody and/or EGFR/antibody complexes produced by the immunological reaction.

Claim 54 (currently amended): The use of an antibody, or one of its functional fragments, as claimed in one of claims 1 to 7, 10 to 17 and 23 to 29, A method for the preparation of a medicament intended for the specific targeting of a biologically active compound to cells expressing or overexpressing the IGF-IR and/or EGFR receptor comprising using the antibody of claim 1.